SUBSTITUTE SPECIFICATION

TITLE OF THE INVENTION

Apple Tree Named 'Fugachee Fuji'

CROSS-REFERENCE TO RELATED APPLICATIONS

This application claims priority of provisional U.S. application Ser. No. 60/426,974, filed November 15, 2002.

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.

None.

LATIN NAME OF THE GENUS AND SPECIES OF THE PLANT CLAIMED:

Malus pumila

VARIETY DENOMINATION:

'Fugachee Fuji'

BACKGROUND OF THE INVENTION

The 'Fugachee Fuji' apple tree was discovered as a sport mutation of its parent 'Fuji' (unpatented) tree in a cultivated orchard near Brewster, Washington in 1998. 'Fugachee Fuji'

was asexually propagated at the same location in 1998, and has been observed to remain stable and true to type over successive generations.

BRIEF SUMMARY OF THE INVENTION

The 'Fugachee Fuji' apple tree is distinguishable from its parent 'Fuji' and from other known and related varieties by its early maturing fruit, and fruit coloration having a pronounced blush covering seventy to 90 percent of the fruit surface. Fruit of 'Fugachee Fuji' is further distinguishable by its large size as compared to 'Fuji'.

'Fugachee Fuji' has been compared to 'Fiero' (U.S. Plant Patent No. 11,193), a similar 'Fuji'-type apple tree. Like 'Fiero,' 'Fugachee Fuji' is an early maturing variety, and its fruit exhibits an attractive blush overcolor. However, 'Fugachee Fuji' matures even earlier than 'Fiero'. A comparison of 'Fugachee Fuji,' 'Fuji' and 'Fiero' is shown in Table 1:

Table 1: Comparison of 'Fugachee Fuji' to 'Fuji' and 'Fiero'

	'Fugachee Fuji'	'Fuji'	'Fiero'
Maturity Date	Late September	Late October	Mid October
Color	70-90% red blush	25-50% red blush or stripe	60-100% red blush

BRIEF DESCRIPTION OF THE PHOTOGRAPHS:

FIG. 1 shows a selection of fruit of 'Fugachee Fuji';

FIG. 2 shows a fruit of 'Fugachee Fuji';

FIG. 3 shows a fruit of 'Fugachee Fuji';

FIG. 4 shows a fruit of 'Fugachee Fuji';

FIG. 5 shows sectioned fruit of 'Fugachee Fuji'; and

FIG. 6 shows a 'Fugachee Fuji' tree and leaves.

DETAILED BOTANICAL DESCRIPTION OF THE VARIETY:

The following detailed botanical description of 'Fugachee Fuji' is based on observations made during the 2003 and 2004 growing seasons of trees planted in 2002 at Brewster, Washington and Parker, Washington, USA. Colors, except those colors described in common terms, are set forth in accordance with the Royal Horticultural Society Colour Chart (2001). The botanical characteristics described will vary somewhat depending upon cultural practices and climatic conditions, and can vary with location and season. Quantified measurements are expressed as an average of measurements taken from a number of individual plants of the new variety. The measurements of any individual plant, or any group of plants, of the new variety may vary from the stated average.

Tree	
Vigor	Vigorous
Type	Non-Spur
Habit	Spreading
Size	Height, 1.5 m; diameter, 2.7 m
Trunk	Diameter 20 cm at 10 cm above graft union; bark texture rough; brown N200D, greyed-orange173B,

	greyed-orange165A; smooth areas greyed-orange 166A; lenticels 0.2 to 0.8 cm long; lenticel color greyed orange 165D
Branches	Length 120 cm; diameter 4 cm; smooth; greyed-orange 165A; internode length 4 to 6 cm
Winter hardiness	Hardy where tested (Brewster, Washington)
Flowers	
Bud	Quantity per spur 4 to 6; elongated; length 0.9 cm; diameter 0.6 cm; yellow-green 146C; tip red-purple 62A
Flower Color (balloon stage)	White 155D
Flower Size	Diameter 4.3 to 4.4 mm; 4 to 6 flowers per cluster; not showy
Petals	5 per flower; overlapping; length 1.7 cm; width 1.1 cm; margin smooth; upper surface color white 155D; lower surface color white 155D when fully open
Sepals	Length 4 mm; width 2 mm; yellow-green 146C
Pistil	Quantity 5; length 8 to 10 mm; yellow-green 145C
Anthers	Length 5 mm ; pollen abundant, yellow 1A
Bloom period	March 28 to April 20 at Brewster, Washington
Leaf	
Leaf Size	Length 9 cm; width 6 cm;

Length-width ratio	Medium
Margin	Serrate
Shape	Ovate; base rounded; apex acute
Color	Upper surface green 137A; lower surface green 138D
Petiole	Length 4.5 cm; diameter 1 mm; yellow green 145B
Fruit	
Size	Diameter 8.0 cm; height 8.1 cm
Ratio of height to width	Medium
General shape in profile	Globose
Position of maximum diameter	Middle
Crowning at calyx end	Absent or very weak
Depth of eye basin	0.6 cm
Width of eye basin	2.9 cm
Stalk	Diameter 1.5 mm
Depth of stalk cavity	2.0 cm
Width of stalk cavity	4.1 cm
Size of lenticels	Small
Bloom of skin	Present
Ground color of skin	Yellow green 151C
Over color of skin	Red 42A
Amount of over color	70% to 90%
Intensity of over color	Medium

Pattern of over color	Solid flush
Flesh color	White 155D
Seeds	Avg. 6 per fruit; greyed-red 178A
Quantity per cluster	Avg. 3 to 5
Use:	Fresh market
Resistance to known diseases:	None noted
Storageability:	Not yet evaluated